CR-136822

Stanford University Department of Applied Earth Sciences

"Made available under NASA sponsorship Stanford, CA 94305 in the interest of early and wide dissemination of Earth Resources Survey Program information and without liability for any use made thereof."

SKYLAB

MONTHLY REPORT # 3-4 (October and November 1973) ♥

TITLE: FEASIBILITY OF USING S-191 INFRARED SPECTRA FOR GEOLOGICAL STUDIES FROM SPACE

В. PRINCIPAL INVESTIGATORS: R.J.P. Lyon: A.A. Green: F.R. Honey

School of Earth Sciences

Stanford University

Stanford, California 94305

Phone (415) 321-2300 ext 4147/2747

C. PROPOSAL #9641

Contract # NAS 9-13357

D. TECHNICAL MONITORS:

Larry York: Tim White

Code TF 6

Johnson Spacecraft Center

Houston, Texas 77058

Phone (713) 483-2526

E. PERIOD:

September 2- November 2, 1973

Remote Sensing Laboratory

Stanford University

Stanford, California

(E74-10327) FEASIBILITY OF USING S-191 INFRAFED SPICIBA FOR GEOLOGICAL STUDIES FECM SPACE Monthly Report, 2 Sep. - 2 Nov. 1973 (Starford Univ.) 3 p HC \$4.03 N74-18013

Unclass 00327

CSCL 08G G3/13

F. OVERALL STATUS (Problem areas, significant progress)

- 1. Not enough data received to <u>date</u> to determine suitability of SL3 results.
- 2. Airborne and ground based radiometer, and contact, temperature measurements were made in support of SL3 overpass at Mono Lake, California, and Luning, Nevada on September 13, 1973. Ground Measurements were supported, in part, by members of the Nevada Remote Sensing Project. Agreement between the ground and airborne results were very close, indicating that surface temperatures at the time of the SL3 overpass can be determined reliably.
- 3. Software development is proceeding.

G. DATA RECEIVED TO DATE

See next page.

- H. <u>RECOMMENDATIONS</u> (Decisions/Actions required to ensure attainment of scientific objectives).
 - 1. Supply of SL2 and RB57 data would enable software testing, as well as providing useful aircraft data.

I. EXPECTED ACCOMPLISHMENTS FOR NEXT PERIOD

Analysis of SL3 data (if received).

J. SIGNIFICANT RESULTS

None. No spacecraft data.

K. SUMMARY OF FUTURE EFFORT

- Completion and use of software for semi-automatic analysis of RB57 and SL3 data tapes.
- 2. Ground truth measurements using spectrometer, and correlation of these results with RB57 and SL3 data.

L. TRAVEL SUMMARY AND PLANS

Field work for ground measurements using spectrometer.

G. DATA RECEIVED TO DATE

AIRCRAFT SKYLAB

RB57

| | | KB57 | | | | | | | | | S191 | |
|-----|-------|-------------------|--------------|---------------|------------------------|-------------------------|-------|-------|------|--------------------|-------------------|--|
| | Films | Boresight Film | Data Logs | Data Tapes | 16 mm. C.R.T. Plots | I.R. R57 Data Images | S190A | S190B | S192 | S191 Data Tapes | Boresight Film | |
| SL2 | N.R. | N.R. | N.R. | N.R. | N.R. | N.R. | R. | N.R. | N.R. | N.R. | R. | |
| SL3 | R. | N.R. | N.R. | N.R. | N.R. | N.R. | N.R. | N.R. | N.R. | N.R. | N.R. | |

R.=Received

N.R. = Not Received